

DART SERVICE INSTRUCTION

TO AMEND INSTALLATION INSTRUCTIONS IIN-D412-761 REV. D OR EARLIER AND
INSTRUCTIONS FOR CONTINUED AIRWORTHINESS ICA-D412-761 REV. 1 OR EARLIER

REF. TCCA STC: SH09-4

REF. EASA STC: 10028917

PURPOSE

THE PURPOSE OF THIS SERVICE INSTRUCTION IS TO INTRODUCE THE ALTERNATE D412-761-051 ARMREST KIT FOR D412-761-041 FULL VERTICAL REFERENCE DOOR KIT. IN COMPARISON WITH THE STANDARD D412-761-049 ARMREST KIT, THE ALTERNATE D412-761-051 ARMREST KIT FEATURES AN ELONGATED AND NARROWER ARMREST CUSHION.

REFER TO SHEET 2 FOR THE ALTERNATE D412-761-051 ARMREST KIT PARTS LIST.

INSTALLATION

THE INSTALLATION OF D412-761-051 ARMREST KIT IS SAME AS D412-761-049 ARMREST KIT. PERFORM INSTALLATION PER IIN-D412-761 AND INSTALLATION DRAWING D412-761-3 BY SUBSTITUTING D3780-041 ARMREST ASSEMBLY WITH D4097-041 ARMREST ASSEMBLY.

KIT CONVERSION

CUSTOMERS WHO ALREADY HAVE THE D412-761-049 ARMREST KIT INSTALLED AND WOULD PREFER THE NEW D412-761-051 ARMREST INSTALLATION MAY SUBSTITUTE THEIR EXISTING D3780-041 ARMREST ASSEMBLY WITH D4097-041 ARMREST ASSEMBLY. SIMILARLY, CUSTOMERS WHO HAVE INSTALLED THE NEW D412-761-051 ARMREST KIT AND WOULD LIKE TO CONVERT THEIR EXISTING KIT INTO A D412-761-049 MAY DO SO BY SUBSTITUTING THE D4097-041 ARMREST ASSEMBLY WITH THE D3780-041 ARMREST ASSEMBLY. REFER TO SECTION 52.5 OF ICA-D412-761, SECTION 3.3 OF IIN-D412-761 AND DRAWING D412-761-3. ADJUST WEIGHT AND BALANCE PER THE TABLE BELOW.

WEIGHT AND BALANCE






Installation	Weight	LATERAL		LONGITUDINAL	
		Arm	Moment	Arm	Moment
D412-761-041 Full Vertical Reference Door Kit (includes -045/-047/-049 Kits)	27.9 lb 12.6 kg	-46.5 in -1.18 m	-1297 lb-in -14.9 kg-m	47.9 in 1.22 m	1336 lb-in 15.4 kg-m
D412-761-041A Full Vertical Reference Door Kit (includes -045/-047/-051 Kits)	26.9 lb 12.2 kg	-46.5 in -1.18 m	-1251 lb-in -14.4 kg-m	47.9 in 1.22 m	1289 lb-in 14.9 kg-m
D412-761-045 Bubble Window/Modified Latch Mechanism Kits	16.0 lb 7.26 kg	-47.8 in -1.21 m	-764.8 lb-in -8.78 kg-m	47.0 in 1.19 m	752.0 lb-in 8.64 kg-m
D412-761-047 Door Mounted Instrument Panel Kit (Excludes Instruments)	3.8 lb 1.70 kg	-42.8 in -1.09 m	-160.5 lb-in -1.85 kg-m	39.2 in 1.00 m	147.0 lb-in 1.70 kg-m
D412-761-049 Armrest Kit	7.3 lb 3.31 kg	-37.1 in -0.94 m	-270.8 lb-in -3.11 kg-m	61.4 in 1.56 m	448.2 lb-in 5.16 kg-m
D412-761-051 Alternate Armrest Kit	6.3 lb 2.86 kg	-37.1 in -0.94 m	-233.7 lb-in -2.69 kg-m	61.4 in 1.56 m	386.8 lb-in 4.46 kg-m

CANADA
DEPARTMENT OF TRANSPORT
AIRCRAFT CERTIFICATION
BRANCH
DAO # 01-O-01

APPROVED

BY: 
D. SHEPHERD (DE # 02)

DATE: 10.05.10
CERT. NO.: SH09-4
ISSUE NO.: 2

A	NEW ISSUE	MB	10.05.10
REV.	DESCRIPTION	BY	DATE
DESIGN		DART AEROSPACE LTD HAWKESBURY, ONTARIO, CANADA	
DRAWN			
CHECKED		DRAWING NO.	REV. A
MFG. APPR.	N/A	DSI 9520	SHEET 1 OF 3
APPROVED		TITLE	SCALE
DE APPR.		ALTERNATE ARMREST INSTALL	NTS
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PARTS LIST

QTY -051	PART NUMBER	DESCRIPTION
X	D412-761-051	ARMREST KIT, LH
1	D3694-041	MOUNTING PLATE ASSEMBLY
1	D3694-1	* KEYWAY
1	D3694-3	* PROTECTIVE PLATE
1	D3694-5	* MOUNTING PLATE
1	AN526C1032R8	* SCREW
5	AN960JD10	* WASHER
4	MS21042L3	* NUT
2	MS21209F1-20	* HELI-COIL, SCREW LOCKING (RED)
1	MS24693-C271	* SCREW (OR MS24693-S271)
4	MS24693-C273	* SCREW (OR MS24693-S273)
1	D3695-041	SLIDER ASSEMBLY
1	D3695-1	* SLIDER
1	D3695-3	* STOPPER
1	D3801-1	* HAND RETRACTABLE SPRING PLUNGER
1	MS21209F6-25	* HELI-COIL, SCREW LOCKING (RED)
4	MS21209F1-20	* HELI-COIL, SCREW LOCKING (RED)
4	MS24693-C276	* SCREW (OR MS24693-S276)
1	D4097-041	ARMREST ASSEMBLY
1	D3696-041	* ARM ASSEMBLY
1	D3696-1	** ARM
1	D3801-3	** HAND RETRACTABLE SPRING PLUNGER
1	D4098-041	* CUSHION ASSEMBLY
1	D4099-1	* BRACKET
3	MS21042L3	* NUT
5	MS24693-C273	* SCREW
3	MS24693-C277	* SCREW
3	NAS1149D0332J	* WASHER
11	AN3-6A	BOLT
1	AN6-26	BOLT
1	AN310-6	CASTELLATED NUT
11	AN960JD10	WASHER
1	AN960JD616L	WASHER
2	NAS1515H6L	WASHER
1	MS24665-302	COTTER PIN
3	MS21071L3	ANCHORNUT
8	MS21075L3	NUTPLATE






* DENOTES PART IS INCLUDED WITH ASSEMBLY ABOVE
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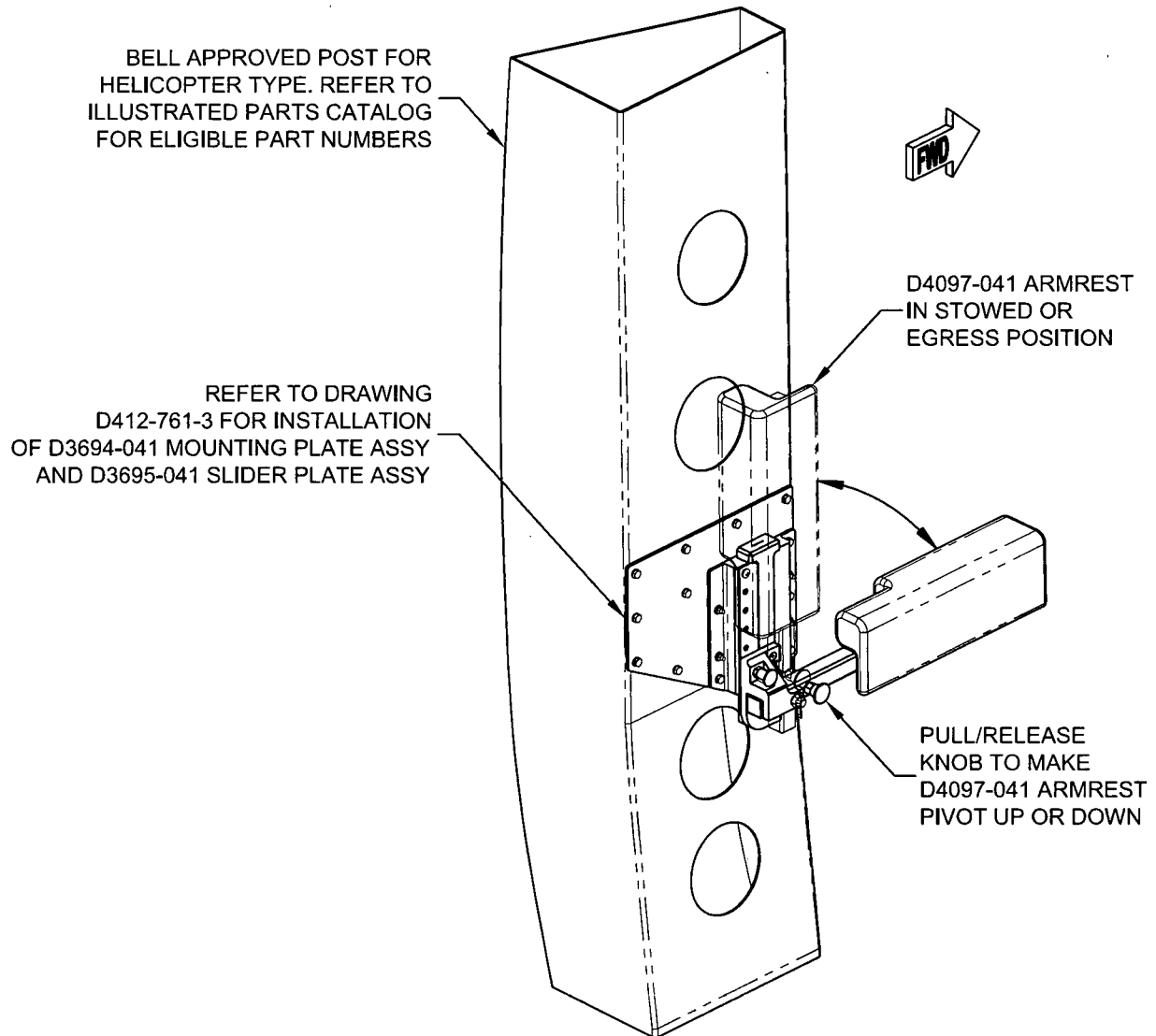







FIGURE 1: D412-761-051 ARMREST INSTALL OVERVIEW

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